

CHAPTER FIVE

ENGINE LOWER END

5

This chapter describes service procedures for the following lower end components:

1. Recoil starter.
2. Alternator cover.
3. Flywheel and starter clutch.
4. Gearshift linkage.
5. Reverse shaft assembly.
6. Oil pump.
7. Relief valve.
8. Oil strainer screen.
9. Crankcase and crankshaft.
10. Transmission shifting check.

One of the most important aspects of a successful engine overhaul is preparation. Before removing the engine and disassembling the crankcase, degrease the engine and frame. Have all the necessary hand and special tools available. Make sure the work area is clean and well lit. Identify and store individual parts and assemblies in appropriate storage containers.

Throughout the text there is frequent mention of the front and rear sides of the engine. This refers to

the engine as it sits in the vehicle's frame, not as it sits on the workbench. Likewise, the references to the left and right sides of the engine refer to the engine as it is mounted in the frame.

Table 1 lists general engine specifications and **Table 3** lists oil pump service specifications. **Table 4** lists crankshaft service specifications. **Table 5** lists engine torque specifications. **Tables 1-4** are located at the end of this chapter.

SERVICING ENGINE IN FRAME

Many engine components may be serviced with the engine mounted in the frame. The following components can be serviced with the engine mounted in the frame:

1. Cylinder head.
2. Cylinder and piston.
3. Clutch.
4. Recoil starter.
5. Oil pump
6. Carburetor.

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